OIPE

RAW SEQUENCE LISTING   DATE: 12/07/2001
PATENT APPLICATION: US/09/997,931   TIME: 13:38:04

Input Set : A:\220.00010150.ST25.txt
Output Set: N:\CRF3\12072001\I997931.raw

ENTERED

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  3 <110> APPLICANT: University of Rochester
  4       Kool, Eric
  6 <120> TITLE OF INVENTION: CIRCULAR DNA VECTORS FOR SYNTHESIS OF RNA AND DNA
  8 <130> FILE REFERENCE: 220.00010142
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/997,931
C--> 10 <141> CURRENT FILING DATE: 2001-11-30
 10 <150> PRIOR APPLICATION NUMBER: US 09/569,344
 11 <151> PRIOR FILING DATE: 2000-05-11
 13 <150> PRIOR APPLICATION NUMBER: US 08/805,631
 14 <151> PRIOR FILING DATE: 1997-02-26
 16 <150> PRIOR APPLICATION NUMBER: US 08/393,439
 17 <151> PRIOR FILING DATE: 1995-02-23
 19 <150> PRIOR APPLICATION NUMBER: US 08/047,860
 20 <151> PRIOR FILING DATE: 1993-04-15
 22 <160> NUMBER OF SEQ ID NOS: 129
 24 <170> SOFTWARE: PatentIn version 3.1
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 34
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Artificial Sequence
 31 <220> FEATURE:
 32 <223> OTHER INFORMATION: linear precircle oligonucleotide
 34 <400> SEQUENCE: 1
 35 aaagaagagg gaagaaagaa aaggggtgga aaag                          34
 38 <210> SEQ ID NO: 2
 39 <211> LENGTH: 34
 40 <212> TYPE: DNA
 41 <213> ORGANISM: Artificial Sequence
 43 <220> FEATURE:
 44 <223> OTHER INFORMATION: oligonucleotide product which has an MnlI enzyme cleavage
site at
 45       its end
 47 <400> SEQUENCE: 2
 48 ttttccaccc cttttctttc ttccctcttc tttc                          34
 51 <210> SEQ ID NO: 3
 52 <211> LENGTH: 34
 53 <212> TYPE: DNA
 54 <213> ORGANISM: Artificial Sequence
 56 <220> FEATURE:
 57 <223> OTHER INFORMATION: template circle
 59 <400> SEQUENCE: 3
 60 gaaagaagag ggaagaaaga aaaggggtgg aaaa                          34
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 64 <211> LENGTH: 204
 65 <212> TYPE: DNA
 66 <213> ORGANISM: Artificial Sequence
 68 <220> FEATURE:
 69 <223> OTHER INFORMATION: multimer
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71 <400> SEQUENCE: 4
72 ttttccaccc cttttctttc ttccctcttc tttcttttcc accccttttc tttcttccct   60
74 cttctttctt ttccacccct tttctttctt ccctcttctt tcttttccac cccttttctt   120
76 tcttccctct tctttctttt ccaccccttt tctttcttcc ctcttctttc ttttccaccc   180
78 cttttctttc ttccctcttc tttc   204
81 <210> SEQ ID NO: 5
82 <211> LENGTH: 26
83 <212> TYPE: DNA
84 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: circular template
89 <400> SEQUENCE: 5
90 caaaaaaaaa aaacaaaaaa aaaaaa   26
93 <210> SEQ ID NO: 6
94 <211> LENGTH: 29
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: multimer
101 <400> SEQUENCE: 6
102 tttgtttttt tttttgttt ttttttttt   29
105 <210> SEQ ID NO: 7
106 <211> LENGTH: 12
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: resultant desired oligomer
113 <400> SEQUENCE: 7
114 tttttttttt tt   12
117 <210> SEQ ID NO: 8
118 <211> LENGTH: 12
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: linear sequence
125 <400> SEQUENCE: 8
126 aagaaagaaa ag   12
129 <210> SEQ ID NO: 9
130 <211> LENGTH: 39
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: circular template
137 <400> SEQUENCE: 9
138 cttagagacg aagatcaaac gtctctaaga cttttcttt   39
141 <210> SEQ ID NO: 10
142 <211> LENGTH: 117
143 <212> TYPE: DNA
144 <213> ORGANISM: Artificial Sequence

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146 <220> FEATURE:
147 <223> OTHER INFORMATION: multimer product
149 <400> SEQUENCE: 10
150 tcttagagac gtttgatctt cgtctctaag aaagaaaagt cttagagacg tttgatcttc      60
152 gtctctaaga aagaaaagtc ttagagacgt ttgatcttcg tctctaagaa agaaaag       117
155 <210> SEQ ID NO: 11
156 <211> LENGTH: 12
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: desired oligomer
163 <400> SEQUENCE: 11
164 aagaaagaaa ag                                                         12
167 <210> SEQ ID NO: 12
168 <211> LENGTH: 27
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: product oligomer
175 <400> SEQUENCE: 12
176 tcttagagac gtttgatctt cgtctct                                         27
179 <210> SEQ ID NO: 13
180 <211> LENGTH: 34
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: precircle
187 <400> SEQUENCE: 13
188 gatcagaaaa gaaagaagga ggaagaaaga aaag                                 34
191 <210> SEQ ID NO: 14
192 <211> LENGTH: 34
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: circular template
199 <400> SEQUENCE: 14
200 gaaaagaaag aaggaggaag aaagaaaagg atca                                 34
203 <210> SEQ ID NO: 15
204 <211> LENGTH: 44
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: multimer product
211 <400> SEQUENCE: 15
212 gatccttttc tttcttcctc cttctttctt ttctgatcct tttc                      44
215 <210> SEQ ID NO: 16
216 <211> LENGTH: 34
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
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220 <220> FEATURE:
221 <223> OTHER INFORMATION: desired circular oligomer
223 <400> SEQUENCE: 16
224 ttctttcttt tctgatcctt ttctttcttc ctcc                          34
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228 <211> LENGTH: 39
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: multimer product
235 <400> SEQUENCE: 17
236 gatcagaaaa gaaagaagga ggaagaaaga aaaggatca                     39
239 <210> SEQ ID NO: 18
240 <211> LENGTH: 34
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: oligomer
247 <400> SEQUENCE: 18
248 aaaagaaaga aggaggaaga aagaaaagga tcag                          34
251 <210> SEQ ID NO: 19
252 <211> LENGTH: 34
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: oligomer
259 <400> SEQUENCE: 19
260 gatccttttc tttcttcctc cttctttctt ttct                          34
263 <210> SEQ ID NO: 20
264 <211> LENGTH: 33
265 <212> TYPE: DNA
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: product oligomer
271 <400> SEQUENCE: 20
272 cgagaaaaga aagaaggagg aagaaagaaa aga                           33
275 <210> SEQ ID NO: 21
276 <211> LENGTH: 34
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: circular template
283 <400> SEQUENCE: 21
284 gatcttttct tcttcctcc ttctttcttt tctc                           34
287 <210> SEQ ID NO: 22
288 <211> LENGTH: 39
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
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```
      293 <223> OTHER INFORMATION: precircle
      295 <400> SEQUENCE: 22
      296 agacgaagat caaacgtctc taagactttt ctttcttag                    39
      299 <210> SEQ ID NO: 23
      300 <211> LENGTH: 31
      301 <212> TYPE: DNA
      302 <213> ORGANISM: Artificial Sequence
      304 <220> FEATURE:
      305 <223> OTHER INFORMATION: circular oligomer
      307 <220> FEATURE:
      308 <221> NAME/KEY: misc_feature
      309 <222> LOCATION: (4)..(23)
      310 <223> OTHER INFORMATION: a, g, c, or t
      313 <400> SEQUENCE: 23
W--> 314 aggnnnnnnn nnnnnnnnnn nnnaaaaaac c                             31
      317 <210> SEQ ID NO: 24
      318 <211> LENGTH: 31
      319 <212> TYPE: DNA
      320 <213> ORGANISM: Artificial Sequence
      322 <220> FEATURE:
      323 <223> OTHER INFORMATION: circular oligomer
      325 <220> FEATURE:
      326 <221> NAME/KEY: misc_feature
      327 <222> LOCATION: (12)..(31)
      328 <223> OTHER INFORMATION: a, g, c, or t
      331 <400> SEQUENCE: 24
W--> 332 aaaaaaccag gnnnnnnnnn nnnnnnnnnn n                             31
      335 <210> SEQ ID NO: 25
      336 <211> LENGTH: 31
      337 <212> TYPE: DNA
      338 <213> ORGANISM: Artificial Sequence
      340 <220> FEATURE:
      341 <223> OTHER INFORMATION: circular oligomer
      343 <220> FEATURE:
      344 <221> NAME/KEY: misc_feature
      345 <222> LOCATION: (10)..(29)
      346 <223> OTHER INFORMATION: a, g, c, or t
      349 <400> SEQUENCE: 25
W--> 350 tggtttttttn nnnnnnnnnn nnnnnnnnnc c                            31
      353 <210> SEQ ID NO: 26
      354 <211> LENGTH: 31
      355 <212> TYPE: DNA
      356 <213> ORGANISM: Artificial Sequence
      358 <220> FEATURE:
      359 <223> OTHER INFORMATION: circular oligomer
      361 <220> FEATURE:
      362 <221> NAME/KEY: misc_feature
      363 <222> LOCATION: (7)..(26)
      364 <223> OTHER INFORMATION: a, g, c, or t
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Use of n and / or Xaa has been detected in the
Sequence Listing. Review the Sequence Listing
to ensure a corresponding explanation is present
in the <220> to <223> fields of each sequence
using n or Xaa.

VERIFICATION SUMMARY   DATE: 12/07/2001
PATENT APPLICATION: US/09/997,931   TIME: 13:38:05

Input Set : A:\220.00010150.ST25.txt
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L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:562 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1008 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:1053 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76
L:1194 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (88) SEQUENCE:
L:1223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90
L:1364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101
L:1375 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (102) SEQUENCE:
L:1383 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (103) SEQUENCE:
L:1457 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (110) SEQUENCE:
```